

Application No. 10/002,180
Amendment filed March 22, 2004

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning at page 4, line 5¹, as follows:

Attention is drawn to the drawings in general and to FIG. 1 in particular, showing a rotary cutting tool in accordance with the present invention. The rotary cutting tool 10 comprises a tool body 12 in the form of a circular disk having a center 14 and a periphery 16. The rotary cutting tool 10 has an axis of rotation A that passes through the center 14 of the tool body 12, the axis of rotation defining the tool's plane of rotation P. The tool body 12 has a plurality of chip clearance recesses 18 opening outwardly from and spaced angularly around the tool body 12 periphery 16, each chip clearance recess having a leading end 20 and a trailing end 22. It will be appreciated that the leading end 20 precedes the trailing end 22 with respect to the direction of rotation R of the rotary cutting tool 10.

Please amend the paragraph beginning at page 4, line 5², as follows:

Associated with each chip clearance recesses 18 is an insert receiving pocket 24. All the insert receiving pockets are at the same radial distance from the center 14 of the tool body 12. Each insert receiving pocket 24 comprises a tangentially extending pocket base 26 that is parallel to the axis of rotation A, the pocket base having a leading end 28 and a trailing end 30. The leading end 28 of the pocket base being adjacent the trailing end 22 of the associated chip clearance recess 18. The trailing end 30 of the pocket base 26 being connected to a generally radially extending, substantially upright, pocket rear surface 32. It will be appreciated that the term radially extending, is defined with respect to the axis of rotation A, whereas the term upright, is defined relative to the pocket base 26. The pocket rear surface 32 and the pocket base 26 are separated by a stress relief groove 34. It will be appreciated that when a workpiece (e.g., cam lobe) is machined, a leading portion of a given part of the cutting tool 10 will reach the workpiece before the trailing portion of that given part, as the cutting tool rotates.

¹ This is also paragraph [0020] in published application no. 20020066352.
² This is also paragraph [0021] in published application no. 20020066352.

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Please amend the paragraph beginning at page 5, line 9³, as follows:

In each insert receiving pocket 24 there is retained an indexable cutting insert 40. Each cutting insert 40 comprising an upper surface 42, a lower surface 44 and a peripheral side surface 46 therebetween. The upper surface 42 and lower surfaces 44 each have a flat central portion 48. The peripheral side surface 46 comprises four component side surfaces 50, 52, 54, 56, each component side surface being joined to an adjacent side surface by a side corner 58, 60, 62, 64. An opposite pair of component side surfaces form front 50 and rear 54 component side surfaces. In terms of the rotation of the rotary cutting tool 10, the front component side surface 50 is situated at the leading end of the cutting insert 40, whereas the rear component side surface 54 is situated at the trailing end of the cutting insert 40. Similarly, the side corners 58, 64 adjacent the front component side surface 50 are leading side corners. Furthermore, each cutting insert 40 is oriented symmetrically has another opposite pair of its component side surfaces 52, 56 symmetrical with respect to the plane of rotation P of the cutting tool 10 and therefore the leading side corners 58, 64 are equally leading side corners. Each component side surface 50, 52, 54, 56 meets the upper surface at upper component cutting edges 66', 68', 70', 72'. Likewise, each component side surface 50, 52, 54, 56 meets the lower surface at lower component cutting edges 66'', 68'', 70'', 72''.

³ This is also paragraph [0023] in published application no. 20020066352.